

### IN THE SPECIFICATION

Page 21, line through page 22, line 8, please amend specification as follows:

-- The measuring section shown in FIG. 4 comprises the pulse power supply 14, the dummy probe 18, the filter 22 and the synchroscope 20. By contrast, the measuring section 40 comprises a pulse power section 14, a high-performance battery 31, a detection section [[22]] 35, an A/D conversion board 32, and an optical communication board 33. The battery 31 supplies power to the pulse power section 14.

The detection section [[22]] 35 comprises circuit elements formed integral on one substrate. The section [[22]] 35 operates at high speed to detect a difference between the floating potential in the voltage period of the pulse voltage and the floating potential in the no-voltage period of the pulse voltage. The A/D conversion board 32 is provided integral with the detection section [[22]] 35 or on another substrate. The board 32 converts the data obtained by the detection section [[22]] 35, to digital data.

The optical communication board 33 converts the digital data output from the A/D conversion board, 32 to an optical signal. The board 33 transmits the optical signal to the optical communication board 34. The board 33 receives an optical control signal from the optical communication board 34 and converts the control signal to an electric signal. The electric signal controls the detection section [[22]] 35. The calculating section 24 may comprise a personal computer or the like. In this case, the section 24 can not only calculate the electron energy distribution, but also control various measuring positions. This realizes remote measuring. As a result, the measuring apparatus can be small and the freedom of arranging the component increases. --